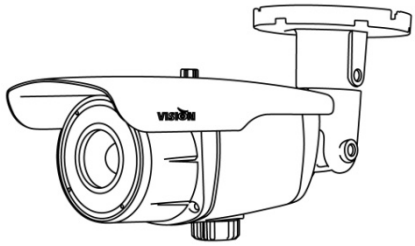
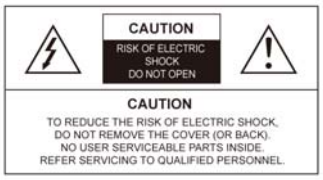
Quick guide
VN7XFHD
Full HD CCTV Night vision Camera

Power option 12VDC



Dear Customers!
By selecting this product, you have decided to use a professional device that guarantees highest quality and reliability. We would like to thank you very much for your confidence and kindly ask you to read the following instructions carefully before Installation and operation in order to take full advantage of all quality features regarding this product.


CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

The lighting flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of un-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

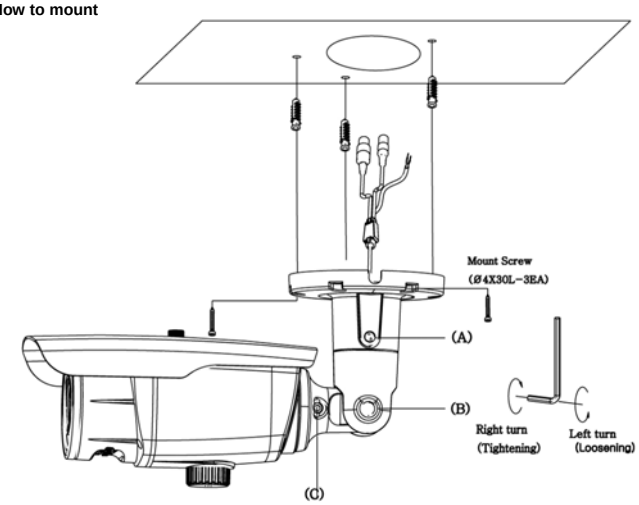
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Package

Camera (x 1), Manual (x1), Ext-Video Cable (x1), Plastic Anchor (x1), Power + Video Cable (x1)

Installation

How to mount



① Drill three screw holes on the ceiling plate to fix three anchors (supplied) in the holes.
② Fix the plastic anchors in the holes.
③ Position the mounting bracket on the screw points.
④ Fix the mounting bracket by tightening the screws.
⑤ Slightly loosen bolt (A) then adjust TILT (180°) and rotation (360°) of the camera using a serration on the bracket and tighten the bolt firmly.
⑥ Slightly loosen bolt (B) then adjust pan (360°) of the camera and tighten the bolt firmly

INFORMATION
This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at one's own expense.

WARNING
Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION – To prevent electric shock and risk of the fire hazards
-Do NOT use power source other than that specified.
-Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

Precautions

Please read the manual carefully before installation in order to set up and use the camera correctly with best image quality.

- Installation and services should be carried out only by authorized personnel according to local safety regulations.

Limitation of liability

This publication is provided "AS IS" without warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for any particular purpose, or non-infringement of the third party's right. This publication could include technical inaccuracies or typographical errors. Changes are added to the information herein, at any time, for the improvements of this publication and/or the corresponding product(s).

Disclaimer of warranty

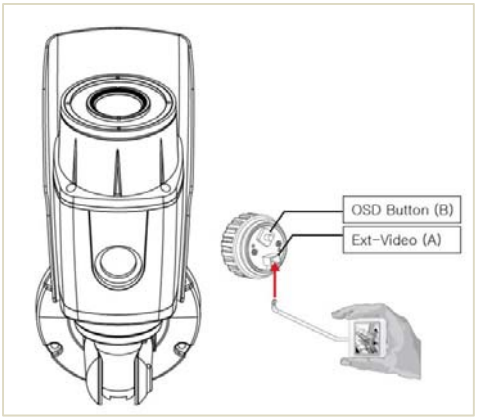
In no event shall seller be liable to any party or any person, except for replacement or reasonable maintenance of the product, for the cases, including but not limited to below;

(1) Any damage and loss, including without limitation, direct or indirect, special, consequential or exemplary, arising out of or relating to the product.
(2) Personal injury or any damage caused by inappropriate use or negligent operation of the user.
(3) Unauthorized disassemble, repair or modification of the product by the user'
(4) Inconvenience or any loss arising when images are not displayed, due to any reason or cause including any failure or problem of the product.
(5) Any problem, consequential inconvenience, or loss or damage, arising out of the system combined by the devices of third party.
(6) Any claim or action for damages, brought by any person or organization being photogenic subject, due to violation of privacy with the result of that surveillance-camera's picture, including saved data, for some reason, becomes public or is used for the purpose other than surveillance.

3-Axis adjustment

The bracket is adjusted by 3-Axis. After installation, change the direction with (A), (B), (C) axes.

Lens external adjustment, EXT-Video



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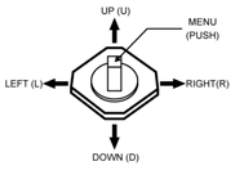
How to use
Connect Extra video output (BNC cable) to LCD monitor as a picture.

5-5. How to adjust the Zoom/Focus.



- Push up or down the Tack SW (OSD Key) by finger for a second.
  Up → Zoom in
  Down → Zoom out
  Left/Right → Focus in/out

Function and operation

Press the Tack SW (OSD Key) to open OSD menu.

MAIN MENU					
VIDEO OUT	VIDEO OUTSIZE	FRAME RATE	CVBS OUT MODE		SAVE/ RETURN
AUTO MENU	NORMAL	50HZ INDOOR	60HZ INDOOR	OUTDOOR	RETURN
DAY/NIGHT	AUTO/COLOR/IR	D TO N LEVEL	D TO N TIME	D/N RESET	RETURN
		N TO D LEVEL	N TO D TIME		
AWB	(ATW)/PUSH/HOLD	RED	BLUE	AWB RESET	RETURN
	TRACK/USER/8000K/				
	6000K/4200K/3200K				
AE	IRIS	DC IRIS	BRIGHTNESS	FLICKERLESS	RETURN
	ATR-EX(WDR)	BLC/FLC	LSC	AGC	
	DSS			AE RESET	
PRIVACY	AREA NUMBER	MASK DEFINE	MASK PATTERN	MASK SIZE	RETURN
	MASK POSITION	PRIVACY RESET			
EFFECT	COLOR ADJUST	SHARPNESS	CONTRAST	REVERSAL	RETURN
	2DNR	3DNR	EFFECT RESET		
SYSTEM	CAMERA ID	ID DISPLAY	CAMERA NAME	NAME DISPLAY	RETURN
	FIRMWARE	485 TERM	BAUD RATE	SYSTEM RESET	
INITIALIZE	FACTORY INIT				RETURN

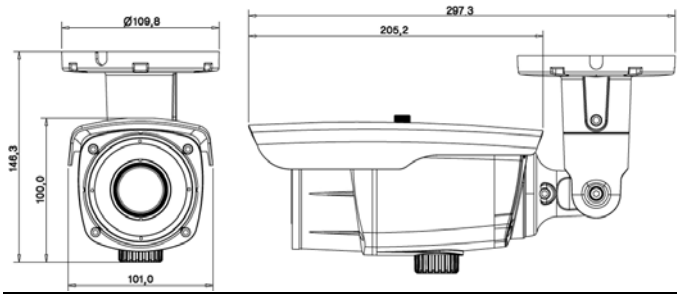
Communication

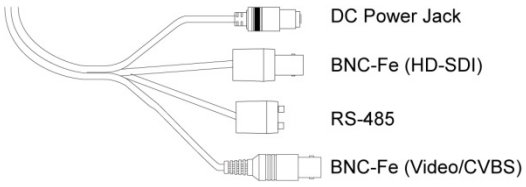
PELCO-D

485 Control Board Connection Port	RS-485 Control Port
(+)CONNECTION TERMINAL(TRX+)	485+
(-)CONNECTION TERMINAL(TRX-)	485-

Item	Camera ID	BAUD RATE	UART MODE	RET PKT
Initial value	001	9600	8-NONE-1	ENABLE

Dimension(mm)





Specification

MODEL	Full HD CCTV IR Bullet Camera
Sensor Device	Sony 1/2.8" progressive scan CMOS, 3MegaPixel
Total Pixels	*2144(H) x 1588(V) 3.4 Megapixel*
Effective Pixels	*2096(H) x 1561(V) 3.27 Megapixel*
Scanning System	Progressive Scan
Horizontal	More than 1100 TVL
S/N Ratio	More than 52dB
Min. Illumination	1.0 Lux with DSS x 2 (F1.2, 30IRE, AGC On),
Shutter Speed	1/30s Default(Long Exposure Mode, ~1Sec)
Video Output	*1920 x 1080P 60/50/30/25/59.94/29.97, 1920x 1080i 60/50/59.94/ 1280x 720P 60/50/30/25//59.94/29.97 (Mode Select)*
Video Output Format	*1.5G-SDI, 3G-SDI Output (SMPTE 424M,SMPTE 292M)*
AV Output	1V p-p Composite. 75 Ohms
Digital Output	SDI Output
Day & Night	ICR
Serial Port	RS485
Lens	5 ~ 60mm VF Auto Iris Mega Pixel
Lens Control	DC IRIS Lens
LED Spectrum	850nm
Viewable Distance	Up to 50M at Moonless Night
Power Source	DC 12V(9~19V)
Operating Current	400mA(IR OFF)/570mA(IR ON)
Operating Temperature	-10°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Operating Humidity	Under 90% Non-condensing
Measurement (mm)	Refer to the dimension
Weight (Approx.)	1,000 g
OSD	Video Mode / Auto Set / D&N / AWB / AE /Privacy Mask / Flickerless / Brightness / Sharpness / Mirror & Flip / DSS/DNR, etc.

** Specifications are subject to change without prior noitce for improvement.*